

Baker

Michael Baker Jr., Inc.

APPENDIX A

Photographs

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: Turbine Airfoil Designs, Inc.

PHOTOGRAPH

1

**VIEW
West**

**PHOTOGRAPHS
BY**

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Comments: Gated entrance to main manufacturing building via bridge over Paxton Creek.

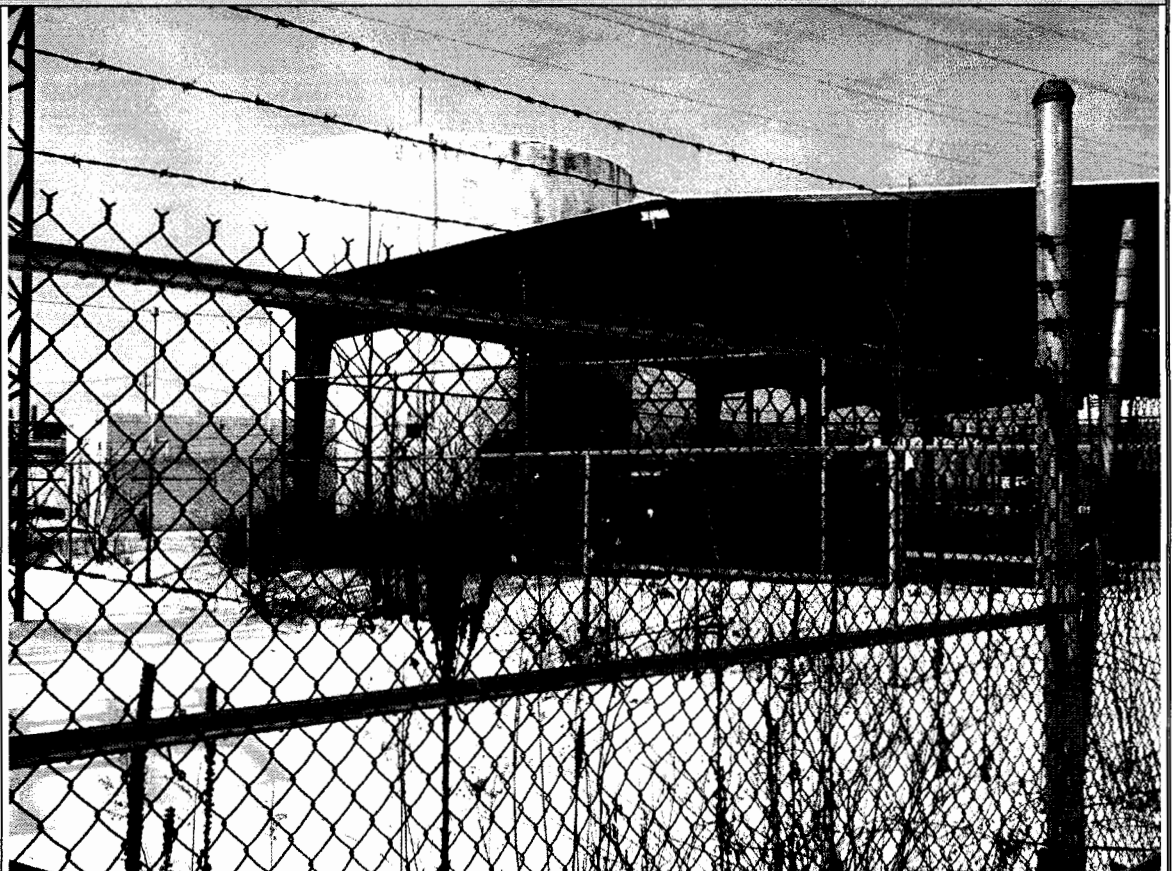
PHOTOGRAPH

2

**VIEW
Northwest**

**PHOTOGRAPHS
BY**

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Comments: Outdoor roofed waste storage area (ATK SWMUs 1 and 2, AES AOC 8).

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SITE NAME: Turbine Airfoil Designs, Inc.

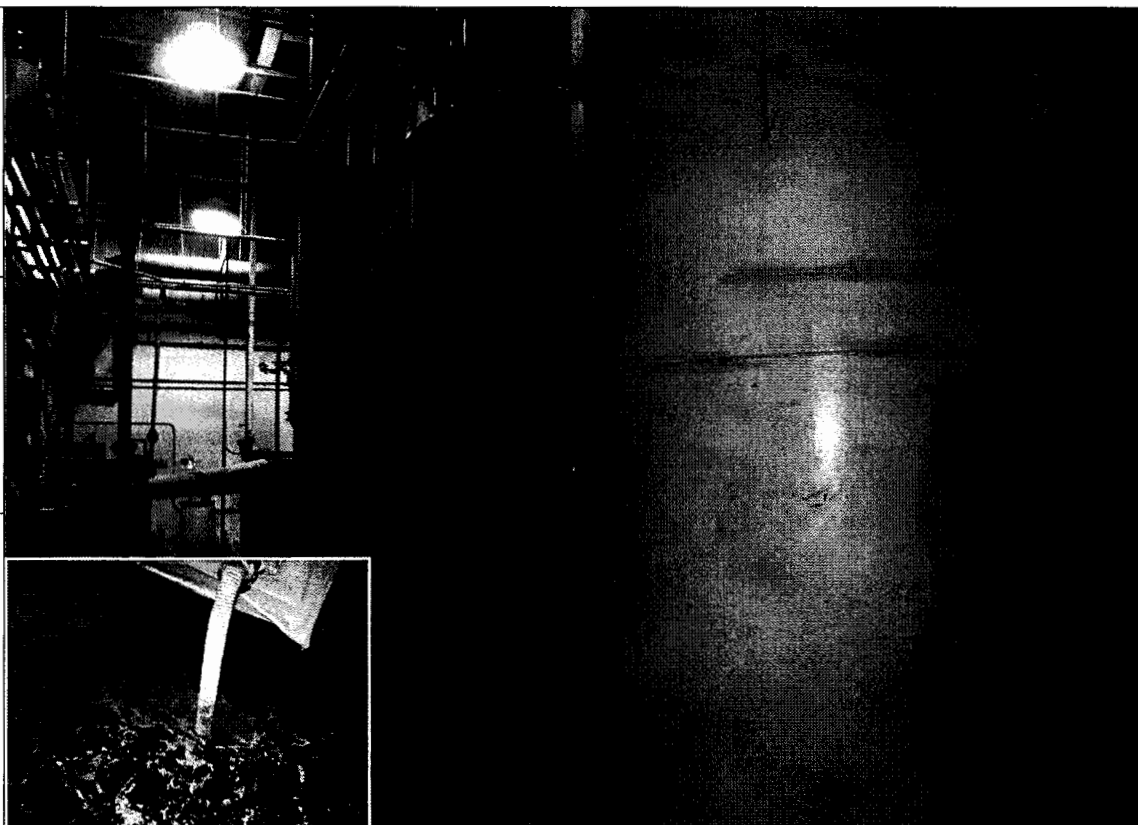
PHOTOGRAPH

3

**VIEW
South**

**PHOTOGRAPHS
BY**

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Comments: PBR Wastewater Treatment System (ATK SWMU 3) – Floor Spills Treatment Line.
Inset: Liquid level in sludge tank.

PHOTOGRAPH

4

**VIEW
East**

**PHOTOGRAPHS
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Comments: Northeast corner of main manufacturing building. Location of roll-offs observed by PADEP (September 2009). ATK SWMUs 4 and 6 were located directly north (left side of photo).

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SITE NAME: Turbine Airfoil Designs, Inc.

PHOTOGRAPH

5

VIEW
East

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Comments: Southwest corner of property (ATK SWMU 5).

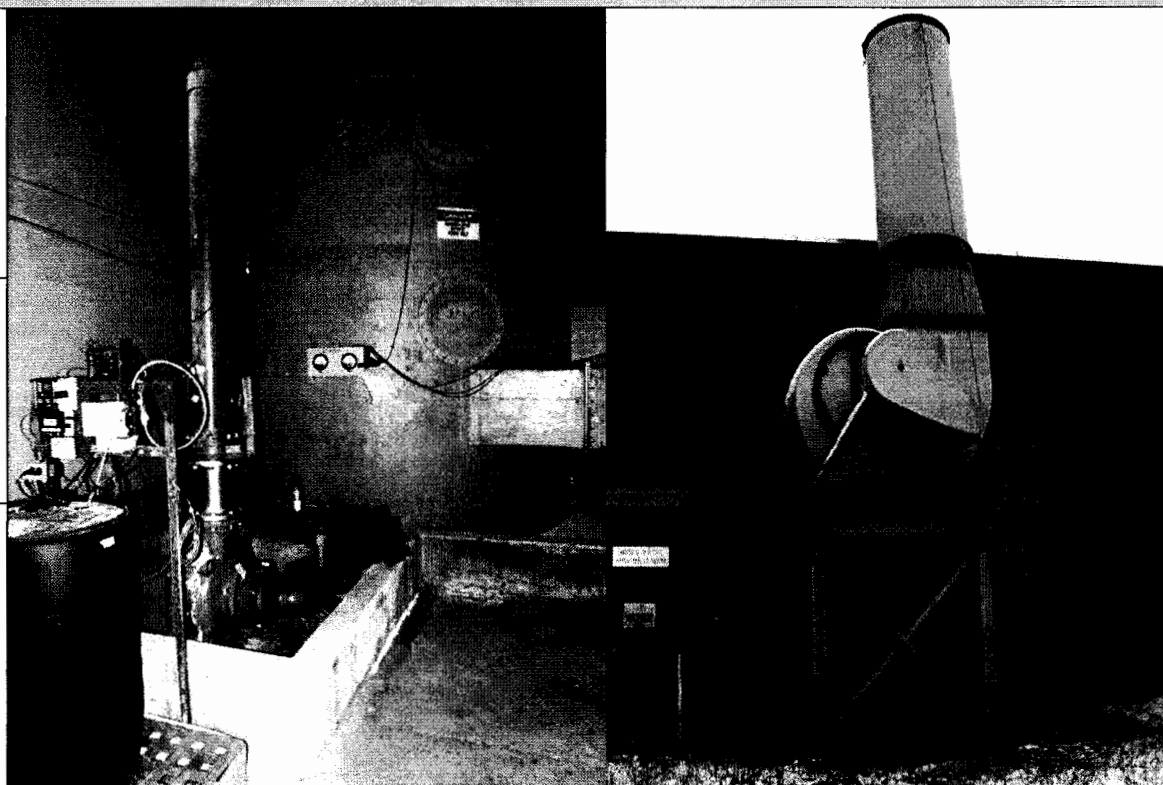
PHOTOGRAPH

6

VIEW
East

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Comments: Air scrubber unit – acid etch area (ATK SWMU 7).

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SITE NAME: Turbine Airfoil Designs, Inc.

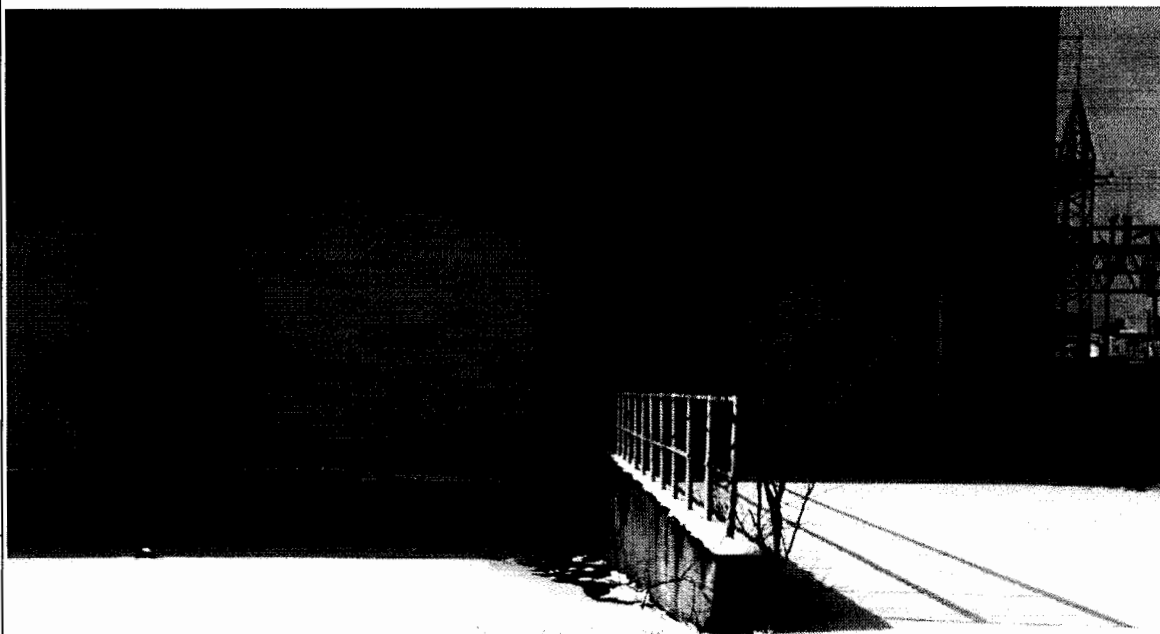
PHOTOGRAPH

7

VIEW
West

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Comments: Location of former 78,000-gallon fuel oil USTs (ATK AOC 2, AES AOC 1).

PHOTOGRAPH

8

VIEW
Southeast

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Comments: Location of three former 2,000-gallon fuel oil USTs (AES AOC 4).

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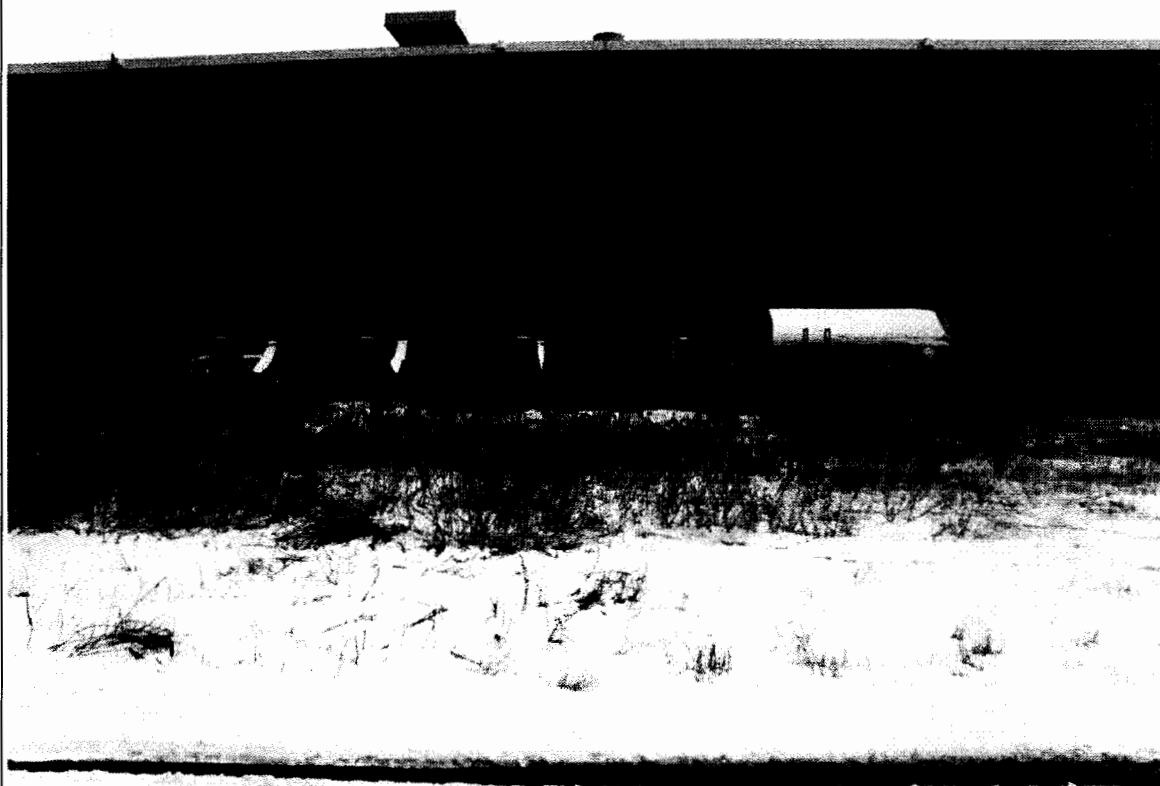
PHOTOGRAPH

9

VIEW
East

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Comments: Portion of AES AOC 5 with remaining 5,000-gallon waste oil tank (reportedly empty).

PHOTOGRAPH

10

VIEW
West

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Comments: Portion of AES AOC 5 (white painted concrete structure) and location of grinding sludge roll-off observed by PADEP (September 2009).

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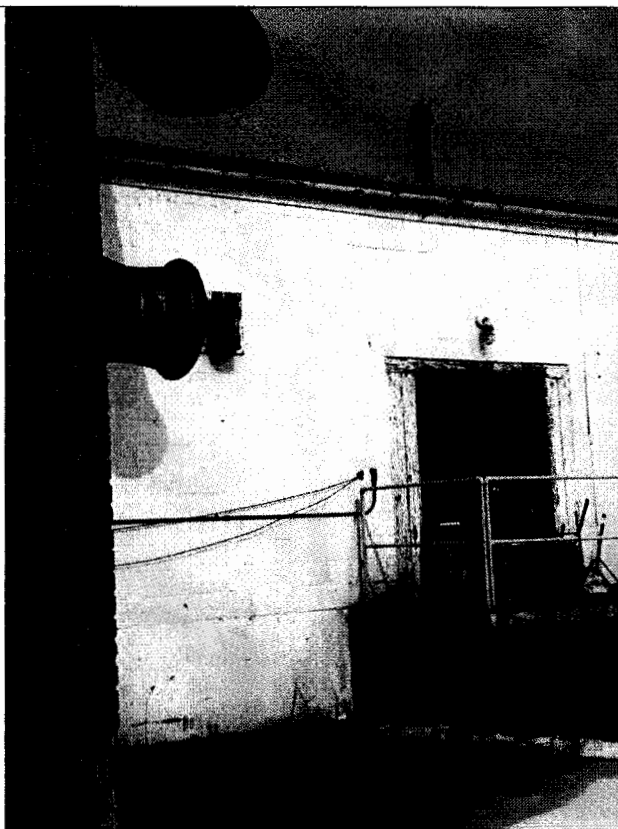
PHOTOGRAPH

11

VIEW
Northeast

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Comments: Location of former pad-mounted transformers (AES AOC 7) and location of drummed baghouse waste observed by PADEP (September 2009).

PHOTOGRAPH

12

VIEW
West

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Comments: South end of main manufacturing building. Storage area for numerous types of waste materials observed by PADEP (September 2009).

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SITE NAME: Turbine Airfoil Designs, Inc.

PHOTOGRAPH

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VIEW
East

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Comments: Indoor storage area for potentially hazardous wastes located in southcentral end of building waiting sampling and analysis for classification.

PHOTOGRAPH

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Southeast

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Comments: Typical waste storage along south wall of indoor storage area.

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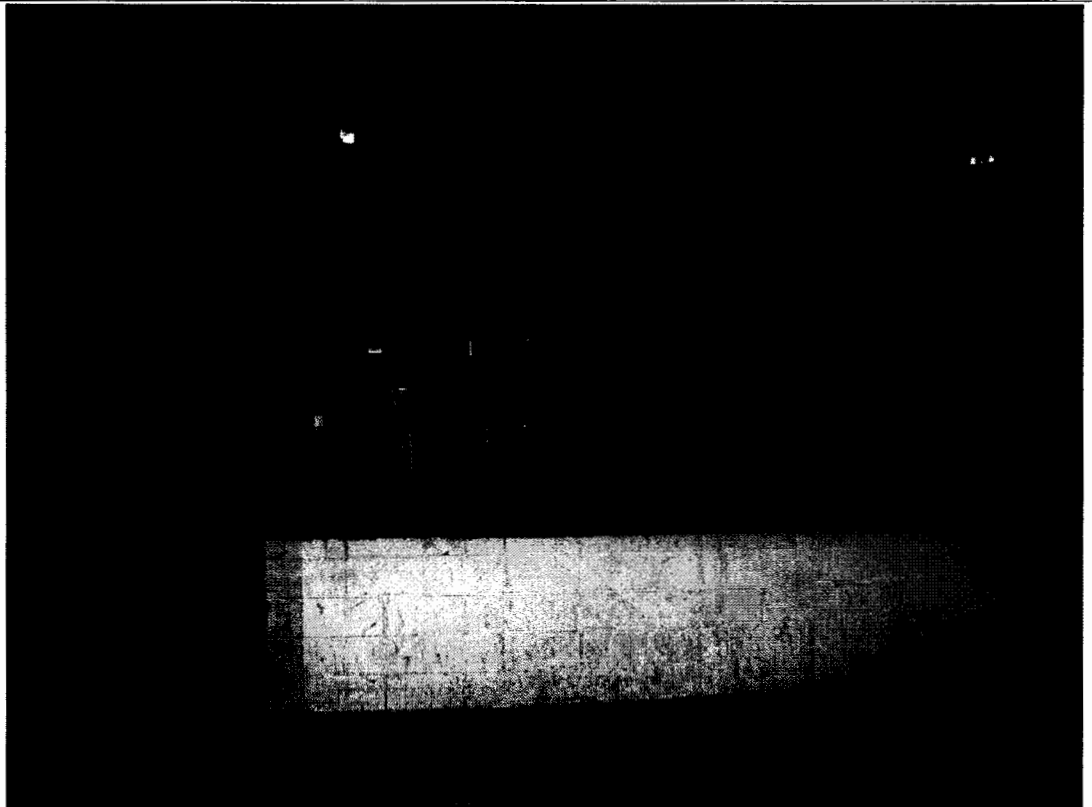
PHOTOGRAPH

15

VIEW
North

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Comments: EDM filter system.

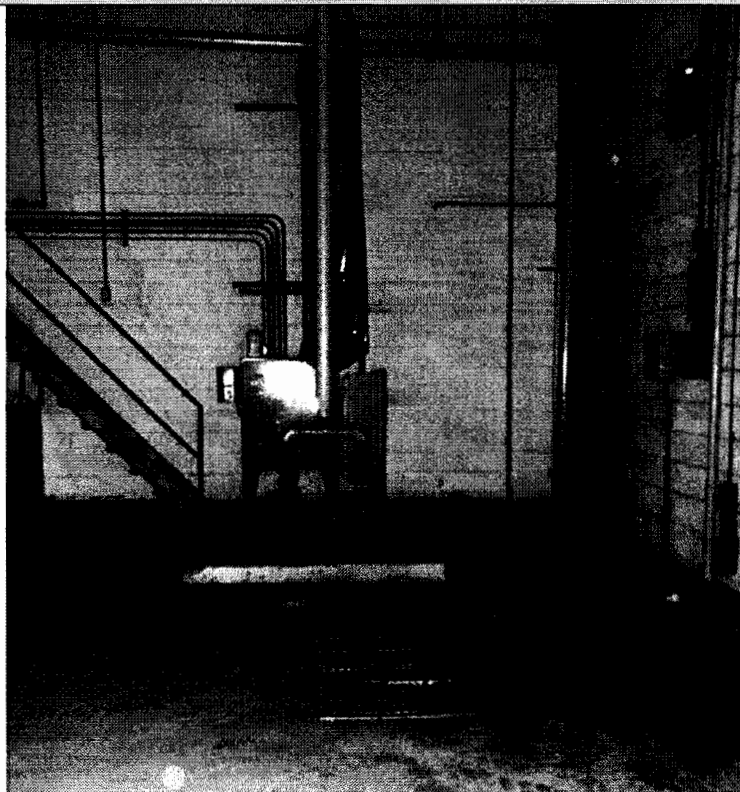
PHOTOGRAPH

16

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North

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Comments: Floor sump (foreground) and oil/water separator for EDM filter system.

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SITE NAME: Turbine Airfoil Designs, Inc.

PHOTOGRAPH

17

VIEW
Southwest

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Comments: Central coolant system A (tank is below grade).

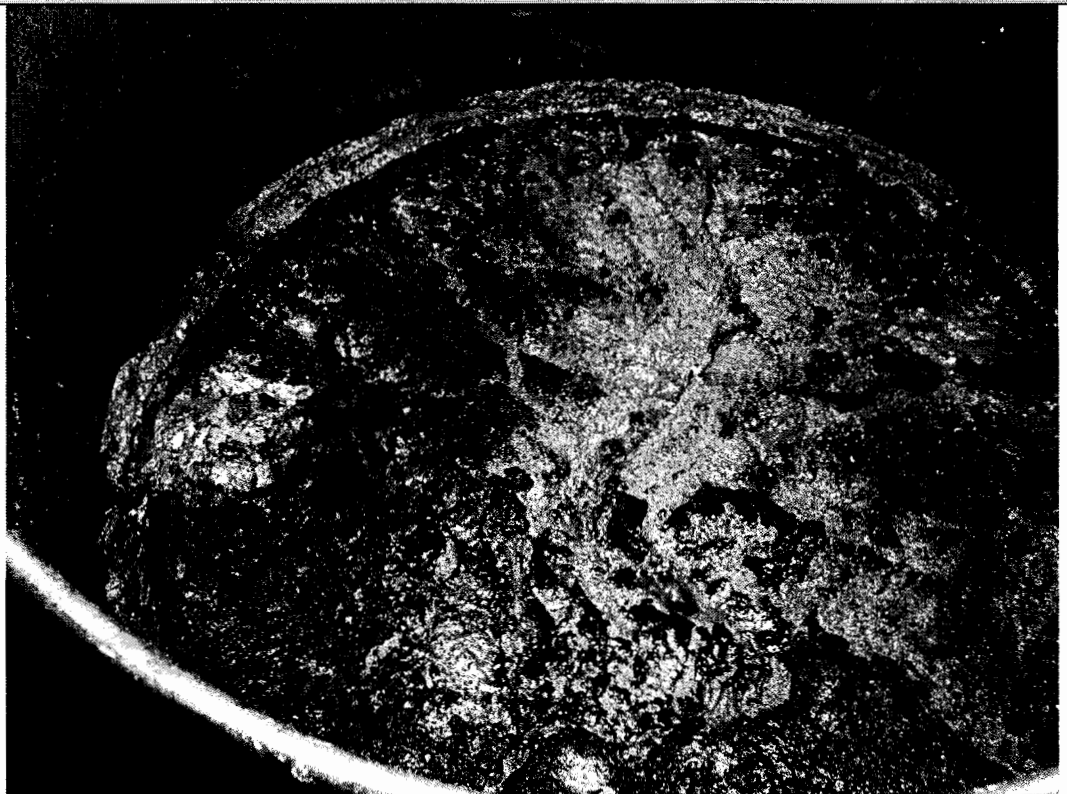
PHOTOGRAPH

18

VIEW
Southwest

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Comments: One of four drums of waste oil/sludge stored in southwest corner of central coolant system A.

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PHOTOGRAPH

19

VIEW
North

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Comments: One of two holding tanks located inside of central coolant system B.

PHOTOGRAPH

20

VIEW
South

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Comments: Waste oil remaining in southern tank located inside of central coolant system B.

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SITE NAME: Turbine Airfoil Designs, Inc.

PHOTOGRAPH

21

VIEW
South

PHOTOGRAPHS
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Comments: Paxton Creek. Outfall 003 located on right bank (right side of creek).

PHOTOGRAPH

22

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Comments: Concrete pipe for Outfall 004.

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APPENDIX B

Figures



Source: Google maps

LAT=40°16'30"N
LON=76°52'52"W

SCALE: 1"=300'
S.O. NO.: 118044
DSN/DWN:TE/WJH

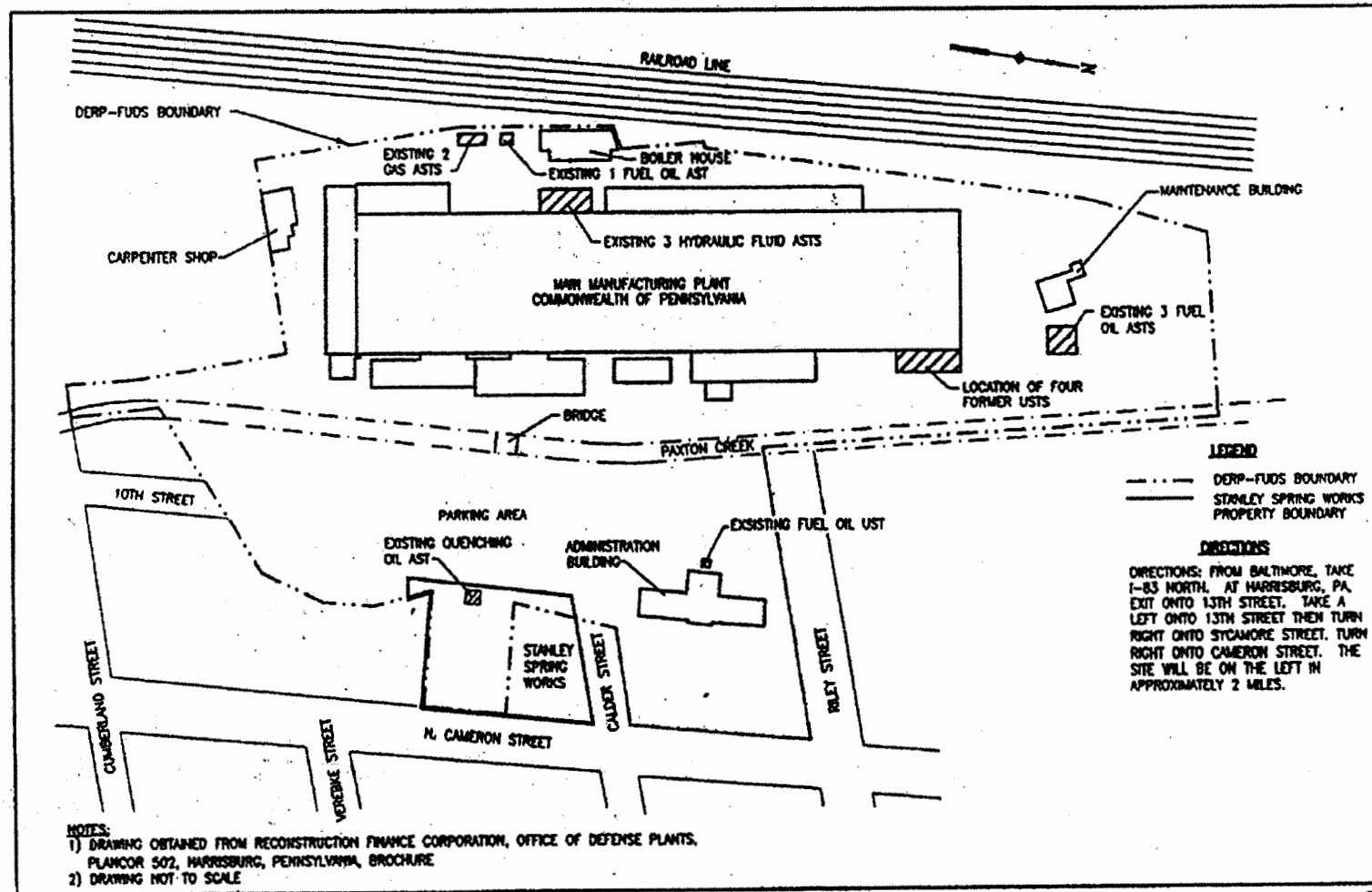
DATE:JULY 2010
FILE: 118044-TAD-01
CHK: TE

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MOON TOWNSHIP, PENNSYLVANIA

FIGURE 1: FACILITY LOCATION MAP
TURBINE AIRFOIL DESIGNS, INC.
1400 NORTH CAMERON STREET
HARRISBURG, PENNSYLVANIA 17110

ATTACHMENT B
SITE MAP
HARRISBURG STEEL CORPORATION, PLANCOR 502
SITE NO. C03PA1073



EA

SOURCE: DERP-FUDS INVENTORY PROJECT REPORT
(DEPARTMENT OF THE ARMY, 1986)

SCALE: AS SHOWN
S.O. NO.: 118044
DSN/DWN:TE/WJH

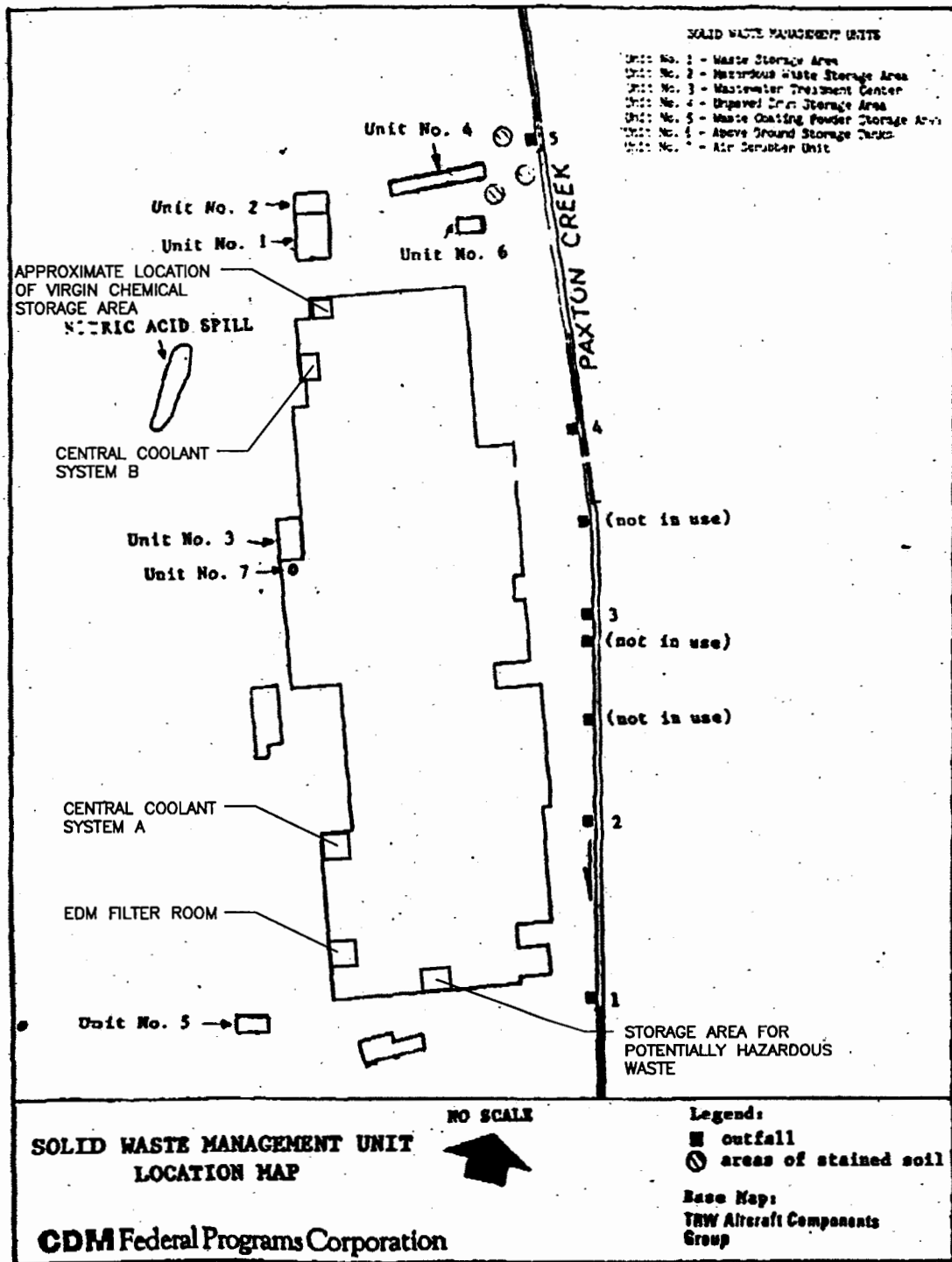
DATE:JUNE 2010
FILE: 118044-TAD-02
CHK: TE

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FIGURE 2: FACILITY LAYOUT
TURBINE AIRFOIL DESIGNS, INC.
1400 NORTH CAMERON STREET
HARRISBURG, PENNSYLVANIA 17110

FIGURE 2



SOURCE: RCRA FACILITY ASSESSMENT
(ATK, 1989): FIGURE 2
AREAS IN RED ADDED BY BAKER:
AREAS OF CONCERN OBSERVED DURING
FEBRUARY 3, 2010 SITE VISIT.

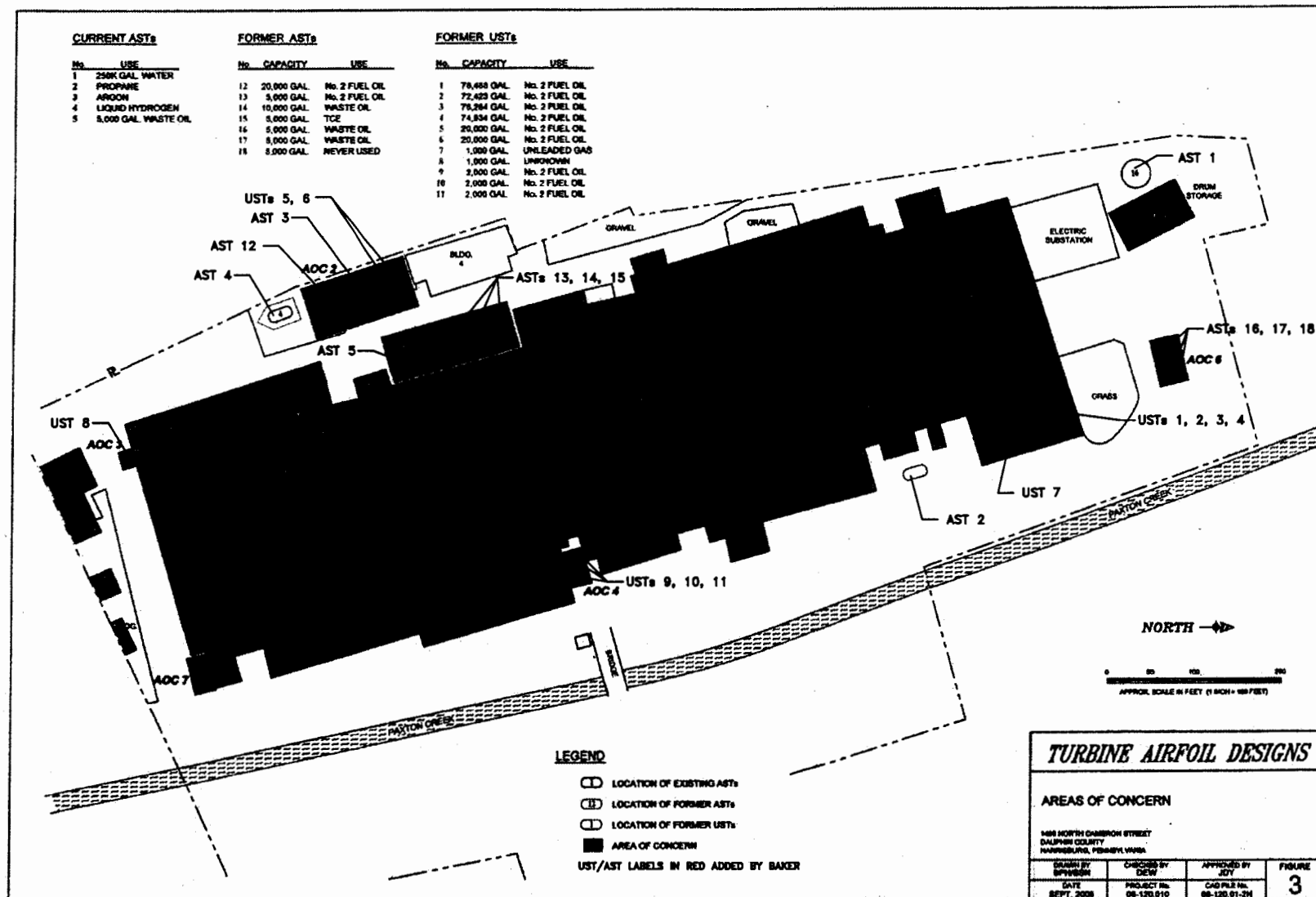
FIGURE 3: SWMU LOCATION MAP
TURBINE AIRFOIL DESIGNS, INC.
1400 NORTH CAMERON STREET
HARRISBURG, PENNSYLVANIA 17110

SCALE: AS SHOWN
S.O. NO.: 118044
DSN/DWN:TE/WJH

DATE:JULY 2010
FILE: 118044-TAD-03
CHK: TE

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SOURCE: BASELINE ENVIRONMENTAL REPORT
(AES, 2007)

SCALE: AS SHOWN
S.O. NO.: 118044
DSN/DWN: TE/WJH

DATE: JUNE 2010
FILE: 118044-TAD-04
CHK: TE

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FIGURE 4: AOC LOCATION MAP
TURBINE AIRFOIL DESIGNS, INC.
1400 NORTH CAMERON STREET
HARRISBURG, PENNSYLVANIA 17110

SOIL BORING LOCATIONS

TRW - AIRFOILS DIVISION
HARRISBURG, PA

(not to scale)

LEGEND:

BORING LOCATION ●

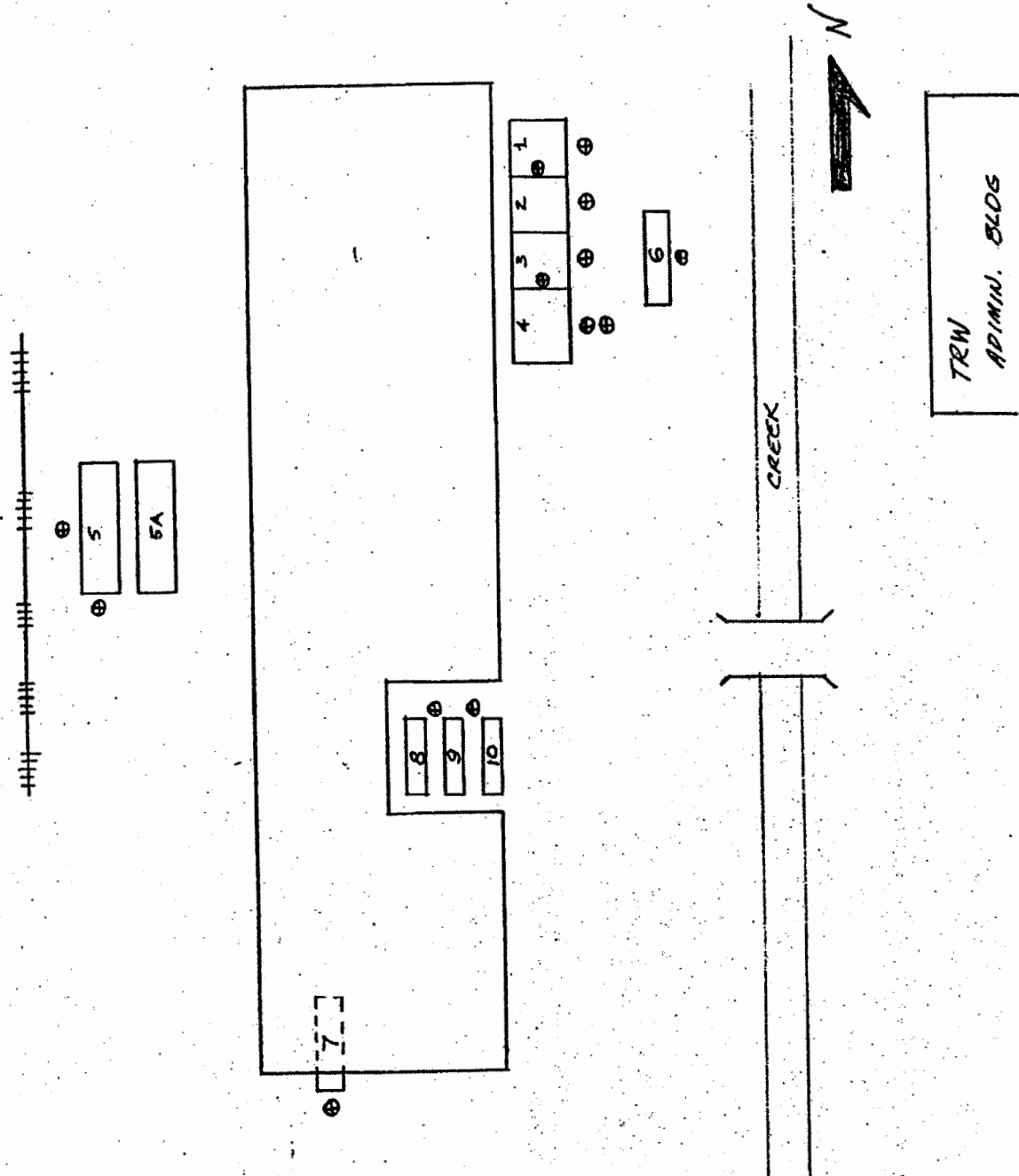


FIGURE 5: SOIL SAMPLING LOCATIONS DURING REMOVAL OF USTs IN 1986

TURBINE AIRFOIL DESIGNS, INC.
1400 NORTH CAMERON STREET
HARRISBURG, PENNSYLVANIA 17110

SOURCE: PHASE I ESA (EPSYS, 2001)
NOTE: NO REFERENCE TO BORING IDENTIFICATION
NUMBERS WAS LOCATED IN THE REGULATORY
DOCUMENTS REVIEWED.

SCALE: AS SHOWN

S.O. NO.: 118044

DSN/DWN:TE/WJH

DATE:JUNE 2010

FILE: 118044-TAD-05

CHK: TE

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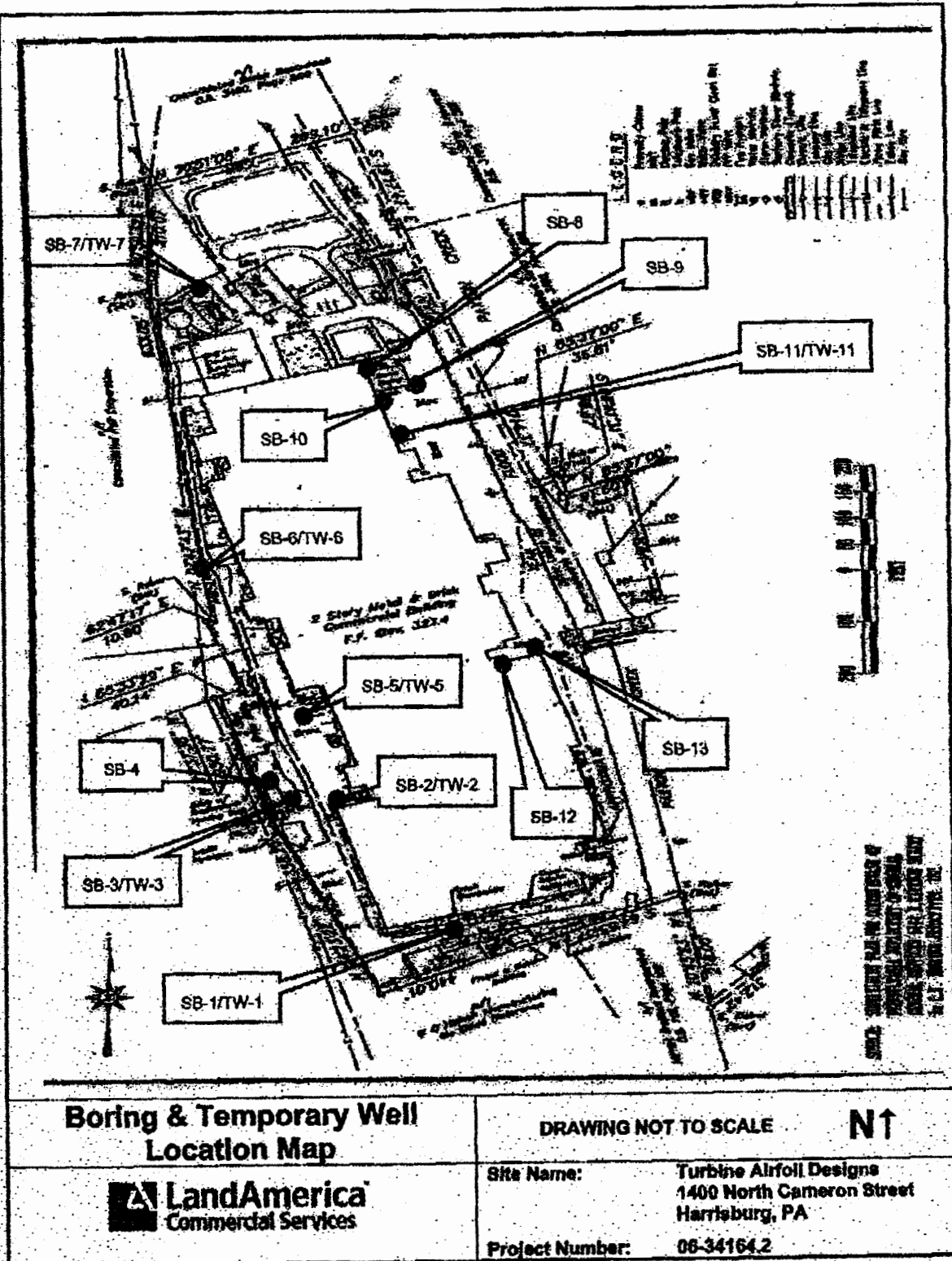


FIGURE 6: SOIL BORING AND TEMPORARY WELL LOCATION MAP
TURBINE AIRFOIL DESIGNS, INC.
1400 NORTH CAMERON STREET
HARRISBURG, PENNSYLVANIA 17110

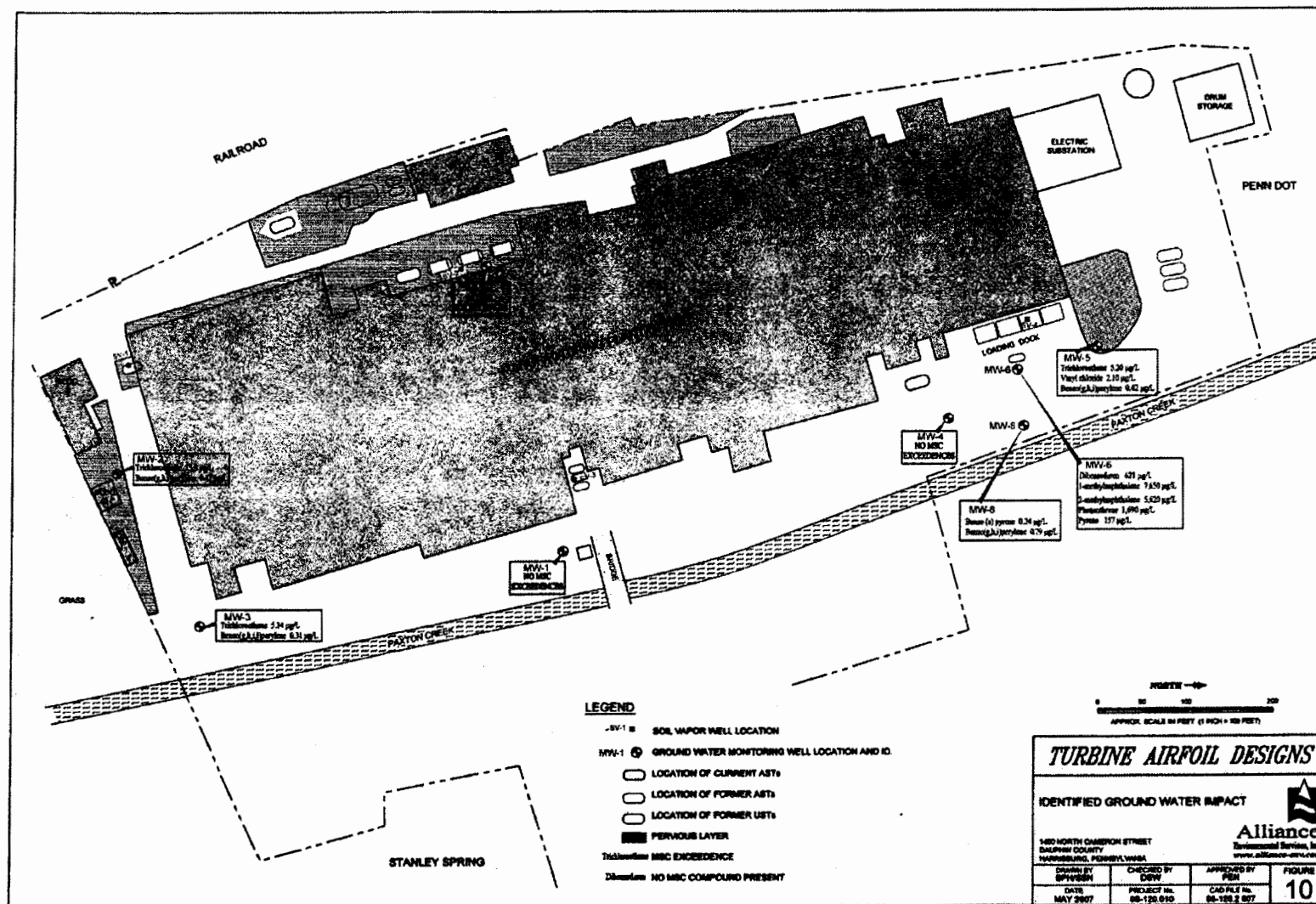
SOURCE: PHASE II LIMITED SUBSURFACE
INVESTIGATION (LAC, 2006)

SCALE: AS SHOWN
S.O. NO.: 118044
DSN/DWN: TE/WJH

DATE: JUNE 2010
FILE: 118044-TAD-06
CHK: TE

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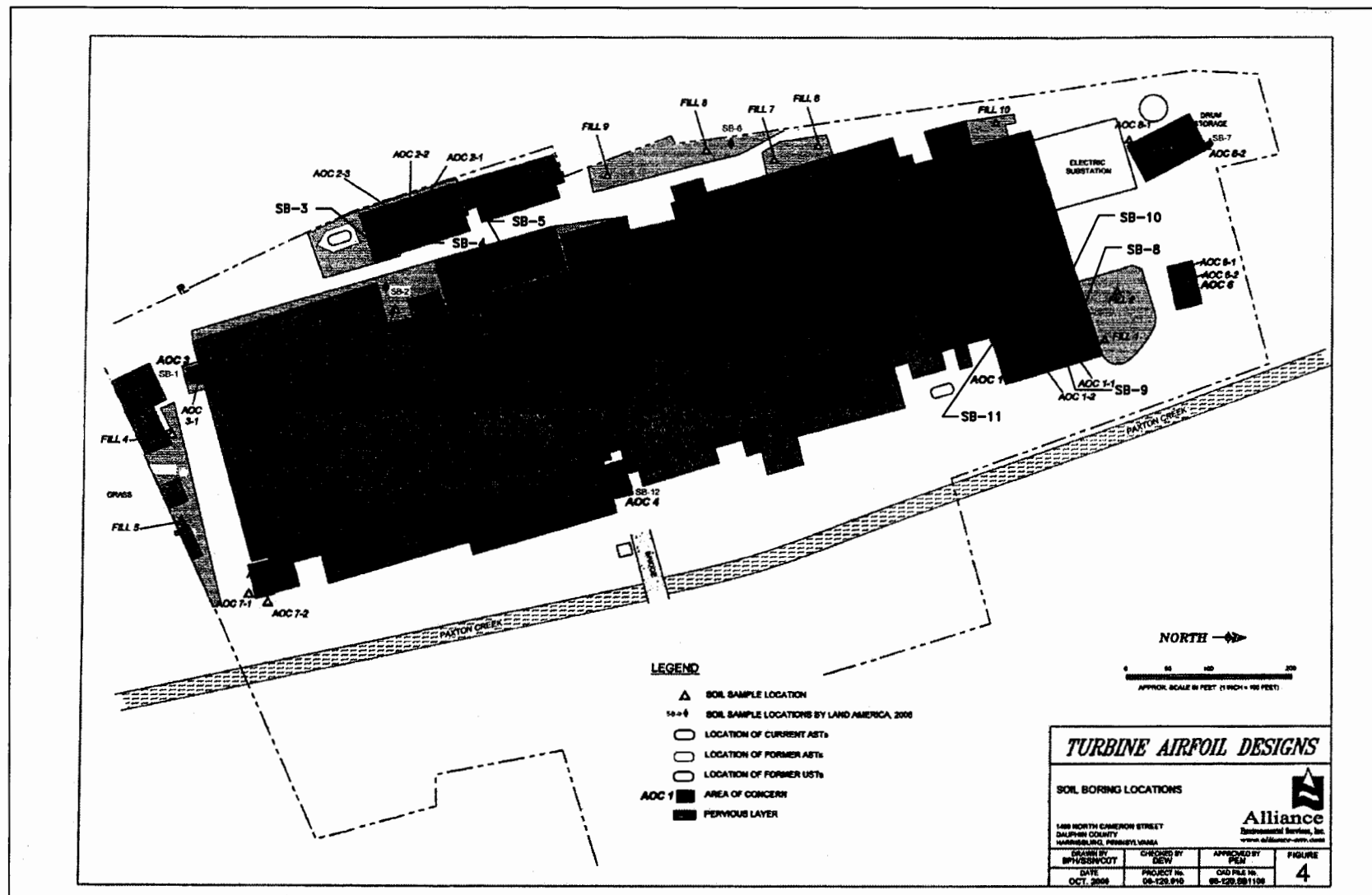
SOURCE: BASELINE ENVIRONMENTAL REPORT (AES, 2007)
NOTE: CONCENTRATIONS REPORTED ARE THE HIGHEST OBSERVED
AT EACH WELL LOCATION, IRRESPECTIVE OF SAMPLING EVENT.

SCALE: AS SHOWN
S.O. NO.: 118044
DSN/DWN: TE/WJH

DATE: JUNE 2010
FILE: 118044-TAD-07
CHK: TE

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FIGURE 7: MONITORING WELL AND SOIL VAPOR
SAMPLE LOCATION MAP
TURBINE AIRFOIL DESIGNS, INC.
1400 NORTH CAMERON STREET
HARRISBURG, PENNSYLVANIA 17110



SOURCE: BASELINE ENVIRONMENTAL REPORT
(AES, 2007)

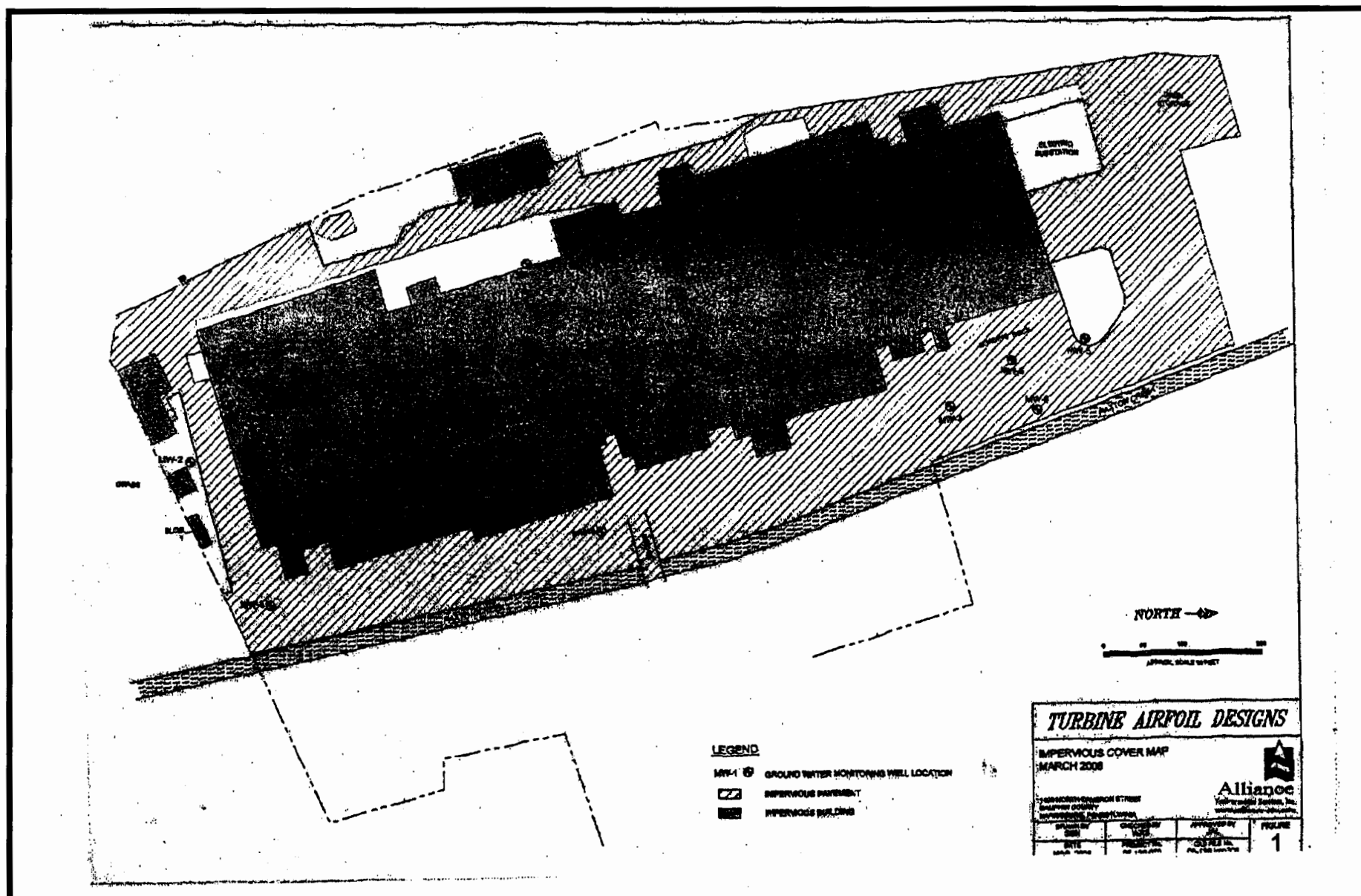
SCALE: AS SHOWN
S.O. NO.: 118044
DSN/DWN:TE/WJH

DATE: JUNE 2010
FILE: 118044-TAD-08
CHK: TE

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FIGURE 8: SOIL SAMPLING LOCATION MAP
TURBINE AIRFOIL DESIGNS, INC.
1400 NORTH CAMERON STREET
HARRISBURG, PENNSYLVANIA 17110



SOURCE: BASELINE ENVIRONMENTAL REPORT (AES, 2007).

SCALE: AS SHOWN
 S.O. NO.: 118044
 DSN/DWN: TE/WJH

DATE: JUNE 2010
 FILE: 118044-TAD-09
 CHK: TE

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FIGURE 9: AREAS OF IMPERVIOUS COVER
 TURBINE AIRFOIL DESIGNS, INC.
 1400 NORTH CAMERON STREET
 HARRISBURG, PENNSYLVANIA 17110

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APPENDIX C

Inventory of Documentation and Reference Documents

The following is a list of documents referenced in the report.

Document Date	Document
September 20, 2007	Baseline Environmental Report (AES)
July 11, 2008	Consent Order and Agreement
March 8, 1996	Department of Army Memorandum on site assessment and risks based on DOD uses
February 7, 1989	RCRA Facility Assessment Report
June 24, 1980	Notification of Hazardous Waste Activity form
August 1, 1980	Amended Notification of Hazardous Waste Activity
November 12, 1980	Part A Permit Application
July 28, 1981	Facility issued interim status for treatment and storage of hazardous wastes
November 21, 1982	NOV for failure to submit a Part B Permit Application
November 30, 1983	Response from facility requesting withdrawal from TSD permitting program
January 1, 1984	Notification of Hazardous Waste Activity form deleting several waste codes
April 30, 1985	NOV based on April 16, 1985 Hazardous Waste Inspection
February 10, 1994	Notification of Hazardous Waste Activity form
March 21, 1994	RCRIS Notification for deletion of waste codes, change in status, and name change to Chromalloy Turbine Airfoils
August 9, 1994	PADEP Request for Residual Waste Impoundment Notification
August 24, 1994	Response letter from PADEP indicating no impoundments were on the property
April 19, 2001	Chromalloy TAD Notification of Hazardous Waste Activity form as SQG
January 28, 2005	PADEP Determination Regarding waste water treatment filter cake (Not F006)
October 16, 1974	Visible emissions noted from Keeler boilers
June 12, 1980	Letter Agreement for violation - installation and operation without plan approval
October 10, 1980	Letter to OSHA about Complaint
May 12, 1981	Violation Due to Dust Emissions
April 5, 1982	Complaint of fugitive emissions from Rotoclone scrubber system
April 19, 1982	NOV for fugitive emissions violation
September 17, 1982	Internal PADEP memorandum for violation noted during vapor degreaser inspection
March 8, 1984	Violation for operating source without plan approval
May 21, 1984	Letter Agreement for violations at plasma spray system
April 20, 1984	Letter from PADEP regarding exempt sources
October 17, 1985	PADEP memorandum noting equipment installed without plan approval
October 22, 1985	NOV for installation of fabric collector without plan approval
December 6, 1985	PADEP internal memorandum regarding follow-up inspection

December 12, 1985	Complaint regarding repeated violations
March 6, 1986	Follow-up inspection after fire
June 5, 1986	Change of ownership affecting seven air quality permits
June 16, 1987	NOV for violations related to modifications/operation of sources without plan approval
September 25, 1987	PADEP internal memorandum stating NOV abated
September 30, 1987	Letter from facility explaining delay in compliance
February 25, 1988	Letter Agreement for operation of sources without plan approval
June 27, 1989	NOV for modifications to EDMs/baghouses without plan approval
March 25, 1990	Settlement of air quality violations
November 7, 2000	PADEP air quality inspection
December 14, 2001	PADEP air quality inspection
April 21, 2005	State Only Operating Permit 22-03049
February 5, 1991	Consent Assessment of Civil Penalty for unpermitted discharges to Paxton Creek
July 29, 1991	PADEP letter requesting analytical data associated with NPDES Permit (PA 08109)
January 6, 1992	NOV based on September 25, 1991 inspection
January 14, 1992	Facility response to NOV
May 12, 1992	NOV for failure to include analytical results in DMRs
July 30, 1992	PADEP tentative determination to issue industrial waste discharge permit
September 9, 1992	Facility letter to PADEP regarding NPDES Permit PA 008109
January 18, 1993	Facility letter regarding drafting of Consent Order and Agreement
July 28, 1995	NPDES permit PA 008109
December 15, 1995	Letter from facility indicating use of several permitted outfalls was discontinued
March 25, 2000	PADEP letter to facility regarding expiration of NPDES Permit
October 28, 2004	Name change notification - Chromalloy Gas Turbine Corporation to Turbine Airfoil Designs, Inc.
December 30, 2004	Transfer of NPDES permit PAR 803638 to TAD
February 18, 2005	TAD submittal of NOI to PADEP for extending/renewing NPDES Permit PAR 803638
April 10, 1986	OBG letter regarding tank removal
March 25, 2009	PADEP Hazardous waste inspection
March 13, 2006	Phase II Limited Subsurface Investigation Report (LandAmerica Corporation)
September 24, 2009	PADEP Motion for Leave to Intervene (Textron Financial Corporation v. TAD)
April 4, 1985	Facility requesting regulatory status of 20,000-gallon fuel oil tank
March 17, 1986	USEPA requesting information regarding discharge of oil and hazardous materials into Paxton Creek
April 25, 1986	OBG notification of UST leak and removal of 10 USTs

June 1, 1987	Roux Associates letter summarizing environmental investigations at TRW Heavy Duty Parts Division
August 14, 1987	Work Plan for Phase I Subsurface Investigation at TRW Heavy Duty Parts Division
September 16, 1987	PADEP inspection of test pits at TRW Heavy Duty Parts Division
October 22, 1987	Roux plan to install piezometers and conduct oil recovery via one well
February 4, 1988	Roux letter regarding surface barrier and subsurface drain plans
February 22, 1988	PADEP approval of Roux remediation plan
July 22, 1998	Chromalloy report to PADEP documenting release to Paxton Creek
December 1, 1998	Phase I ESA by EPSYS for Benatec on property formerly used by TRW administration
September 13, 2000	Chromalloy notification to PADEP of chemical release to Paxton Creek
November 13, 2006	Baseline Remedial Investigation Work Plan (AES)
May 31, 2007	PADEP acknowledgment of receipt of Notice of Intent to Remediate
December 1, 2008	Environmental Covenant
May 15, 2009	PADEP letter to facility regarding March 25, 2009 Residual and Hazardous Waste Inspections
October 23, 2009	Email regarding Actions to Address Environmental Concerns at Site
January 9, 2010	Consent Assessment of Civil Penalty - Waste Management, Inc.
1982 - 2009	PADEP Hazardous Waste Inspection Reports
1997 - 2008	PADEP Air Quality Inspection Reports
1991 - 1996	PADEP NPDES Inspection Reports